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3. The process as claimed in claim 1, characterized in that the product mixture coming from the cooling means (6) has a temperature of 60 to 200°C and a pressure of 0.5 to 3 bar and is still vaporous.
 4. The process as claimed in claim 1, characterized in that the feed mixture supplied to the mixing chamber contains hydrocarbons with more than 8 C-atoms per molecule, that the mixing chamber is designed as column with a gas- and liquid-permeable packing, that the feed mixture is supplied onto the upper portion of the packing, and C₄- to C₈-olefins from the feed mixture are evaporated with a partial amount of the steam supplied to the column in the lower portion of the packing and are withdrawn from the column together with the steam.

REMARKS

The amendments above eliminate multiple dependencies, and place the claims in better form for U.S. examination.

Early and favorable action is earnestly solicited.

Respectfully submitted,

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